

WHAT IS CLAIMED IS:

1. An automatic control system for a parking brake of an automobile having an oil pipe 13 connecting a brake master cylinder 1 with a wheel cylinder 2, the system
5 comprising:

a selection switch 9 switching to AUTO mode or SEMI/AUTO mode for a braking mode by having an AUTO mode terminal 9a automatically controlling a main brake and a
10 parking brake and a SEMI/AUTO mode terminal 9b actuating the main brake during traveling or the parking brake upon the status of KEY-OFF;

a solenoid check valve 3 installed between an oil outlet 1a of the brake master cylinder 1 and the oil pipe
15 13, having a plus electrode thereof connected to a plus electrode of a battery by being connected to a relay proximity switch 4a, and actuated by an ON/OFF type control of relay 4;

a relay 4 controlled by a stop sensing sensor 6 by
20 way of ON/OFF according to whether or not a proximity switch S1 7 installed in an accelerate pedal 11 and a proximity switch S2 8 installed in a brake pedal 12 contact and a detect signal from a speed sensor 5 sensing the speed of the automobile; and

25 a stop sensing sensor circuit connected in series to

a proximity switch S2 8 installed in a brake pedal 12 by connecting in series an AUTO mode terminal 9a of the selection switch 9 connected to an output terminal of KEY switch 10 with the proximity switch S2 8 connected to a power source of the relay 4 and connecting in parallel SEMI/AUTO mode terminal 9b with the stop sensing sensor 6 output terminal;

according to a driver's selection of AUTO mode terminal 9a or SEMI/AUTO mode terminal 9a from the selection switch 9, the relay 4 controlled by the stop sensing sensor 6, the proximity switch S1 6 and the proximity switch S2 8 controlling the solenoid check valve 3 installed between the oil pipe 13 and the oil inlet 1a of the brake master cylinder 1 by way of free flow or control flow;

whereby, upon stepping on a brake pedal 12, the main brake being operated during traveling, whereas the parking brake being operated by the main brake without operating the parking brake in the status of stopping.

2. The system according to claim 1, wherein, when an electric power is OFF, reverse flow control is effected so that an oil pressure conveyed from the brake master cylinder 1 to the wheel cylinder 2 may not return to the brake master cylinder 1, whereas, when the electric power

is ON, free flow of the oil pressure is effected so that the oil pressure conveyed to the wheel cylinder 2 may return to the brake master cylinder 1, and the solenoid check valve 3 includes a manual operating button 3a.

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3. The system according to claim 1, wherein the selection switch 9 includes an AUTO mode terminal 9a for automatically controlling the main brake and the parking brake by way of selection and a SEMI/AUTO mode terminal 9b
10 actuating the parking brake only when the KEY switch is OFF.